

CLAIMS

1 A home network comprising :

- a gateway device comprising audio/video reception means to receive audio/video streams from a communication medium and audio/video transmission means to transmit said received audio/video streams to the home network,

5 - a media center device having storage means for storing said audio/video streams received from the gateway device and audio/video re-transmission means to re-transmit said stored audio/video streams to the home network,

- a control device comprising means for streaming audio/video streams received from the home network, said control device further comprising time-shifting means for triggering the

10 recording on the media center device of audio/video streams transmitted by the gateway device to the home network upon stopping the streaming of said transmitted audio/video streams on said control device, and for retrieving said recorded audio/video streams from the media center device upon resuming the streaming of audio/video streams on said control device.

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2 A home network as claimed in claim 1, wherein :

- said audio/video transmission means of said gateway device include an UPnP MediaServer Service to send said received audio/video streams to a device of the home network including an UPnP MediaRenderer service to render said audio/video streams,

20 - said storage means of said media center device include an UPnP MediaRenderer service that is used to store, in a predetermined file of the media center, said audio/video streams sent by said audio/video transmission means,

- said audio/video re-transmission means of said media center include an UPnP MediaServer service to read the audio/video streams stored on said predetermined file and to transfer it to a

25 device of the network having an UPnP MediaRenderer service,

- said time shifting means for triggering the recording on the media center include means for transmitting the UPnP PAUSE command to the media center, accordingly activating said UPnP MediaRenderer service of said media center to store said audio/video streams on said predetermined file and

30 - said time shifting means for retrieving said recorded audio/video streams from the media center include means for transmitting the UPnP PLAY command to the media center,

accordingly activating said UPnP MediaServer service of said media center to read said audio/video streams from said predetermined file.

3 A home network as claimed in claim 2, wherein said predetermined file is a circular
5 buffer, the position wherefrom said audio/video streams are read by said MediaServer service
of said media center being backward shifted with respect to the position whereto said
audio/video streams are stored by said mediaRenderer service of said media center by a time
shift period corresponding to the period of time between the receptions of said subsequent
PAUSE and PLAY commands by said media center.

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4 A home network as claimed in claim 3, wherein said time shift period is equal or
shorter than a predefined reference time period.

5 In a home network comprising :

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- a gateway device comprising audio/video reception means to receive
audio/video streams from a communication medium and audio/video
transmission means to transmit said received audio/video streams to the
home network,
- a media center device having storage means for storing said audio/video
streams received from the gateway device and audio/video re-transmission
means to re-transmit said stored audio/video streams to the home network,

20 a control device comprising means for streaming audio/video streams received from the
home network, said control device further comprising time-shifting means for triggering the
recording on the media center of audio/video streams transmitted by the gateway device to
25 the home network upon stopping the streaming of said transmitted audio/video streams on
said control device, and for retrieving said recorded audio/video streams from the media
center upon resuming the streaming of audio/video streams on the control device.

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6 In a home network, a gateway device comprising audio/video reception means to
receive audio/video streams from a communication medium and audio/video transmission
means to transmit said received audio/video streams to the home network, said home network
further comprising :

- a media center device having storage means for storing said audio/video streams received from the gateway device and audio/video re-transmission means to re-transmit said stored audio/video streams to the home network and
- a control device comprising means for streaming audio/video streams received from the home network, said control device further comprising time-shifting means for triggering the recording on the media center of audio/video streams transmitted by the gateway device to the home network upon stopping the streaming of said transmitted audio/video streams on said control device, and for retrieving said recorded audio/video streams from the media center upon resuming the streaming of audio/video streams on the control device.

7 In a home network comprising :

- a gateway device comprising audio/video reception means to receive audio/video streams from a communication medium and audio/video transmission means to transmit said received audio/video streams to the home network, and
 - a control device comprising means for streaming audio/video streams received from the home network,
- 20 a media center device comprising means for recording audio/video streams transmitted by the gateway device upon stopping the streaming on said control device of audio/video streams transmitted by said gateway device and means for sending said recorded audio/video streams to the control device upon a retrieve command is received by said media center from said control device for resuming the streaming of said received audio/video streams on the control device after said stop.